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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/496,983	02/02/2000	Mitsunobu Ono	P/16-253 6940		
7590 12/16/2003			EXAMINER		
Steven I. Weisburd Ostrolenk, Faber, Gerb & Soffen 1180 Avenue of the Americas New York, NY 10036-8403			AN, SHAWN S		
			ART UNIT	PAPER NUMBER	
			2613	12	
			DATE MAILED: 12/16/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.		Applicant(s)				
Office Action Summary The MAILING DATE of this communication appoint								
		09/496,983		ONO ET AL.				
		Examiner Shawn S An		Art Unit 2613				
			sheet with the c		Idress			
Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status								
1)⊠	Responsive to communication(s) filed on	15 September 2003.						
2a)⊠	☐ This action is FINAL. 2b)☐ This action is non-final.							
3) 🗌	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims								
4)🖂	Claim(s) 1-13 is/are pending in the applic	cation.						
	4a) Of the above claim(s) is/are withdrawn from consideration.							
·	Claim(s) is/are allowed.							
·	6)⊠ Claim(s) <u>1-13</u> is/are rejected.							
·	Claim(s) is/are objected to. Claim(s) are subject to restriction	and/or election requirer	ment					
•	on Papers	ana/or cicolion requirer	nont.					
	The specification is objected to by the Ex	aminer						
' =	The drawing(s) filed on is/are: a)[ected to by the E	Examiner.				
, _	Applicant may not request that any objection	· · · · · · · · · · · · · · · · · · ·	-					
	Replacement drawing sheet(s) including the	correction is required if the	drawing(s) is obj	ected to. See 37 C	FR 1.121(d).			
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority (ınder 35 U.S.C. §§ 119 and 120							
12)								
Attachment		_						
2) Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-94 nation Disclosure Statement(s) (PTO-1449) Paper N	18) 5) 🔲 1	Notice of Informal Pa	PTO-413) Paper No(atent Application (PTC				
	1.00							

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DETAILED ACTION

Response to Amendment

1. As per Applicant's instructions in Paper 12 as filed on 9/15/03, claims 1-2 and 12 have been amended.

Claim Objections

2. Amended claim 1 is objected to because of the following informalities: claim 1, line 12, "which which" is redundant. Appropriate correction is required.

Response to Remarks/Argument

3. Applicant's arguments with respect to claims 1-13 have been considered but are moot in view of the new ground(s) of rejection. Newly claimed subject matter is broad enough to use the previous prior arts, but taking different interpretation of the previous prior arts to reject the amended limitations.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1-3 and 5-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nakamura et al (5,627,583) in view of Yabe et al (4,845,555).

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Regarding claims 1 and 5, Nakamura et al discloses an endoscope apparatus, comprising:

a first drive signal generator (CCD driver) for generating a drive signal for driving an imaging device (Fig. 1(a), 11) removably connected to an endoscope (Fig. 8, 82);

a video signal extracting portion (CDS circuit) for obtaining a first video signal included in an imaging signal obtained in the imaging device (Fig. 8, 84);

a second drive signal generator (SSG) for generating a second drive signal for controlling a timing when the video extracting portion obtains the first video signal (Fig. 8, 77);

a first processor (video processor) that includes as part of the first processor and at least part of a circuit for obtaining a second video signal that can be displayed on a monitor (Fig. 8, 71 FPGA(1)); and

a delay circuit (91) for delaying at least part of signals among signals after video processing.

Nakamura's delay circuit is <u>not</u> partially interposed between the signal source and the first drive signal generator, for delaying at least part of signals included in the first drive signals and the second drive signals.

However, Yabe et al teaches an electronic endoscope comprising delay circuit (Fig. 10, 34), which is included as part of the first processor (2, 7), which is partially interposed between a signal source (13) and the first drive signal generator, (16) for delaying at least part of signals included in the first drive signals (16) and the second drive signals (14).

Therefore, it would have been obvious to a person of ordinary skill in the relevant art employing an endoscope apparatus as taught by Nakamura et al to incorporate the delay circuit which is partially interposed between a signal source and the first drive signal generator, for delaying at least part of signals included in the first drive signals and the second drive signals as taught by Yabe et al so that the delay circuit is part of the first processor of Nakamura's, for delaying at least part of signals among signals included in the first drive signals and the second

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drive signals in order to correct signal line delay and ultimately reducing many additional components associated with time delaying compensation.

Regarding claim 2, the Examiner takes official notice that DSP is an electronic component that is well known in the art.

Regarding claim 3, the Examiner takes official notice that a delay circuit varying in its delay time, such as in a remote/manual/set controlled delay, is well known in the art.

Regarding claims 6 and 7, the Examiner takes official notice that setting a timer or an user manually specifying delay time on a conventional switches is well known in the art. Therefore, it is considered an obvious variation to specify delay time or to set information which the delay time can be derived, so that the second processor are able to set the delay time depending on the condition of the switch for correction of the line delay.

Regarding claims 8 and 12, Yabe et al teaches delay time being derived from information indicating length of an insert portion of the endoscope (col. 8, lines 51-55).

Regarding claims 9 and 13, Nakamura discloses a control CPU (Fig. 6, 56) for identifying the type of endoscopes. Therefore, it would have been obvious to combine Nakamura's teaching with Yabe et al's delay circuit so that the delay time can be derived including identification information as an effective way to measure precise delay time in order to correct line delay signal.

Regarding claims 10 and 11, an information acknowledgment portion, such as a typical (auto) confirmation signal, are considered an obvious feature, so that the second processor sets the delay time depending on information acknowledged from the information acknowledgment portion.

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6. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Nakamura et and Yabe et al as applied to claim 3 above, and further in view of Pasqualini (6,397,374 B1).

Regarding claim 4, the combination of Nakamura et and Yabe et al fails to disclose the delay circuit comprising a multistage buffer circuit connected in series, and a circuit for selecting the number of stages of the buffer circuit.

However, Pasqualini teaches conventionally well known delay circuit comprising a multistage buffer circuit connected in series (Fig. 6), and a circuit for selecting the number of stages of the buffer circuit (col. 8, lines 52-67) in order to vary the delay timing.

Therefore, it would have been obvious to a person of ordinary skill in the relevant art employing an endoscope apparatus as taught by Nakamura et al to incorporate the teaching of the delay circuit comprising a multistage buffer circuit connected in series, and the circuit for selecting the number of stages of the buffer circuit as taught by Pasqualini et al as an effective way to vary the delay time in order to correct line delay signal with accuracy.

Conclusion

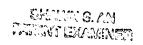
7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL.** See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shawn An whose telephone number (703) 305-0099 and schedule are Tuesday-Friday.





December 11, 2003